



# Texas Brine Company, LLC

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April 10, 2013

Commissioner James H. Welsh  
P.O. Box 94275  
Baton Rouge, LA 70804

**RE: In response to State of Louisiana Department of Natural Resources Office of Conservation's Second Amendment to Declaration of Emergency and Directive**

Commissioner Welsh,

In response to the Second Amendment and Declaration of Emergency and Directive order issued by the Louisiana Department of Natural Resources (LDNR), Office of Conservation on September 25, 2012, Texas Brine Company, LLC (TPC) understands the seven items listed in the document.

In the above mentioned, TBC was specifically directed and ordered to perform certain tasks outlined in the above mentioned document. Below are the required responses, as directed.

1. TBC's counsel provided LDNR legal counsel with a response to Directives 1-3 on September 28, 2012.
2. TBC understands Directive 4, which is to provide all daily logs and field notes from all contractors conducting investigation into subsidence and natural gas bubbling. The Daily Action Summary and results for current information can be found in the Attachment section of this report.
3. TBC understands Directive 5, which directs TBC to immediately allow for split or share any sample taken on site related to Well 3A (Serial Number 974265), the cavern, other wells facilities or other site locations. The Daily Action Summary of today's collection can be found in Attachment section of this report.
4. TBC understands Directive 6, which directs TBC to immediately report the results (final and preliminary) of any tests, logs samples or data collection performed on Well 3A, the cavern, other wells, facilities or site locations that indicate a change in any previously known conditions related to the investigation of the subsidence or natural gas bubbling

events, and continue to report any such results. The Daily Action Summary and the Results related to this Directive can be found in Attachment section of this report.

5. TBC understands the Directive 7, which states that TBC will provide a daily summary of all tests, or logs performed or samples taken from Well 3A and the cavern as well as any results of those tests or logs, including preliminary as of September 25, 2012 and going forward. The Daily Summary and Results related to this Directive can be found in Attachment section of this report.

Please note that the drilling rig used for the Observation Well 3A has been removed and the site is being rigged down and returned to pre-drilling condition. As such, daily drilling reports for this well have ceased. Plans are being made for longer term potential gas venting/flaring requirements and possible hydrocarbon material recover from Well 3A.

In addition, previous daily summary reports issued to LDNR have included significant duplicate information as there is a fair amount of overlap in the information requested in each of the Directives included in the September 25, 2012 order. All requested information associated with the Directives issued in the September 25, 2012 order are included in the Attachment section of this report.

TBC believes that the submittal of this report satisfies the requirements of the Declaration of Emergency and Directive issued on September 25, 2012. As directed this report is submitted by email to [conservationorder@la.gov](mailto:conservationorder@la.gov), ref. "Emergency Declaration-Texas Brine Company LLC-9/25/2012.



Bruce E. Martin

Vice President, Operations

Texas Brine Company, LLC

**Summary Table for Daily Events**

TBC Oxy Grand Bayou Data Management-Environmental										
Contractor	Responsibilities	Collected By		Date Collected	Delivered to Lab	Results from Lab	Laboratory	Method	Date to Agencies	
Sage	Stationary Air Monitoring	Steve Shaughnessy - 07:55 - 09:00 Pete Hyatt IV (Code Red) - 07:00 - 17:00		4/9/2013	NA	NA	NA	AreaRAE Monitors	4/10/2013	
	Residential Air Monitoring	Sage has been requested to suspend bimonthly residential air monitoring. Therefore, Sage will discontinue these activities.		NA	NA	NA	NA	NA	NA	
	Gas Seep Sampling	No work performed		4/9/2013	NA	NA	NA	NA	NA	
	Well Gas Sampling	Steve Shaughnessy ORW 23 12:20-12:30		4/5/2013	Yes	Yes	Accutest	TO15	4/10/2013	
	Under Slab Gas Sampling	Delivery to Laboratory Only Site 57		4/4/2013 (Collected by Tetra Tech)	Yes	Yes	Accutest	TO15	4/10/2013	
	Indoor Air Monitoring	No work performed		4/9/2013	NA	NA	NA	NA	NA	
Respec	Inclinometers/Tilt Meters	4/9/2013	No work conducted	No work conducted	NA	NA	NA	NA	NA	
	InSAR Reflector Installations	4/9/2013	No work conducted	No work conducted	NA	NA	NA	NA	NA	
	Subsidence Survey-Fenstermaker	4/9/2013	No work conducted	No work conducted	NA	NA	NA	NA	NA	
	Shallow Geophone Installation	4/9/2013	No work conducted	No work conducted	NA	NA	NA	NA	NA	
	Deep Geophone Installation	4/9/2013	No work conducted	No work conducted	NA	NA	NA	NA	NA	
	Amendment #3, Directive #2	4/9/2013	No work conducted	No work conducted	NA	NA	NA	NA	NA	
Miller	Weekly Stability Survey	No Work Performed		April 9, 2013	NA	NA	NA	NA	NA	
	Misc. Survey Work	No Work Performed		April 9, 2013	NA	NA	NA	NA	NA	
	Sinkhole Hydro/Perimeter Survey	No Work Performed		April 9, 2013	NA	NA	NA	NA	NA	
Pisani	Surface Water	NA		NA	NA	NA	NA	NA	NA	
	Industrial Well Water	NA		NA	NA	NA	NA	NA	NA	
	MRAAWell Water	NA		NA	NA	NA	NA	NA	NA	
	Geoprobe Wells	NA		NA	NA	NA	NA	NA	NA	
	Grand Bayou Well 3A									
Daily Operations at 3A  4/10/2013		Summary of Today's events								
		Oxy 3A								
4/10/2013		7am	501.8 4/10/2013							
		Relief Well #1								
4/10/2013		See ORW-01 Flare Spreadsheet								

Laboratory

Lab Contact

Laboratory  
Lab Contact

## **Attachments**

## **Daily Action Summary**

**April 9, 2013**

### **Stationary Air Monitoring**

- Steve Shaughnessy onsite from 07:55 to 09:00. Changed out the monitors between 08:13 and 08:41. Collected data from the monitoring database and forwarded to Jill Martin in the Baton Rouge office for processing.
- Pete Hyatt IV of Code Red (monitor sub-contractor) onsite from 07:00 to 17:00. Assisted in battery change outs and maintenance of the monitoring equipment.

### **Residential Air Monitoring**

- Sage has been requested to suspend bimonthly residential air monitoring. Therefore, Sage will discontinue these activities. The last event was conducted on March 26, 2013.

### **Gas Seep Sampling**

- Not Scheduled

### **Well Gas Sampling**

- Accutest provided TO15 results of the gas samples collected on April 5, 2013 from ORW 23, which is located at the corner of Sauce Piquante Street and Gumbo Street. Isotopic analytical results are not yet available.

### **Under Slab Gas Sampling**

- Accutest provided TO15 results of the under slab gas samples collected at Site 57 by Tetra Tech on April 4, 2013. Isotopic analytical results are not yet available.

### **Air Indoor Monitoring**

- Not Scheduled

Texas Brine - Belle Rose, Louisiana  
Hourly Air Monitoring Data

\*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

Date-Time *	South-most Pipeline Site					Middle-most Pipeline Site					North-most Pipeline Site					On Drill Rig Boom					Relief Well				
	ST-3					ST-2					ST-1					OG 3A-1					RW-1				
	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	SO2 (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)
04/09/2013 01:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9
04/09/2013 02:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9
04/09/2013 03:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9
04/09/2013 04:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9
04/09/2013 05:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9
04/09/2013 06:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9
04/09/2013 07:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9
04/09/2013 08:00:00 AM	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 09:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 10:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 11:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 12:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 01:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 02:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 03:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.1	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 04:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	21.1
04/09/2013 05:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	21.1
04/09/2013 06:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	21.2
04/09/2013 07:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	21.1
04/09/2013 08:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 09:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 10:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 11:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.0	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/10/2013 12:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9

Notes:

**Texas Brine - Belle Rose, Louisiana**  
**Under Slab Gas Sampling Results**

	Sample Date: 4/4/2013 Site 57 House	Sample Date: 4/4/2013 Site 57 Shed
<b>LHG Constituents</b>		
<b>SPL Sample ID</b>	<b>1408-SAPIQ-H</b>	<b>1408 SAPIQ-S</b>
<b>Pollutant</b>	<b>Mol %</b>	<b>Mol %</b>
Nitrogen	92.868	98.295
CO <sub>2</sub>	5.863	0.762
Methane	1.269	0.943
Ethane	ND	ND
Propane	ND	ND
Iso-butane	ND	ND
n-Butane	ND	ND
Iso-pentane	ND	ND
n-Pentane	ND	ND
Hexanes	ND	ND
Heptanes+	ND	ND
<b>Sulfides</b>		
<b>SPL Sample ID</b>	<b>1408-SAPIQ-H</b>	<b>1408 SAPIQ-S</b>
<b>Pollutant</b>	<b>ppm<sub>w</sub></b>	<b>ppm<sub>w</sub></b>
Hydrogen Sulfide	ND	ND
Carbonyl Sulfide	<1.0	<1.0
Dimethyl Sulfide	ND	ND
Unkown Sulfides	ND	ND
Methyl Mercaptans	ND	ND
Ethyl Mercaptans	ND	ND
Isopropyl Mercaptans	ND	ND
n-Propyl Mercaptans	ND	ND
sec-Butyl Mercaptans	ND	ND
tert-Butyl Mercaptans	ND	ND
n-Butyl Mercaptans	ND	ND
pri-Amyl Mercaptans	ND	ND
Carbon Disulfide	ND	ND
Unkown Disulfides	ND	ND
Thiophene	ND	ND
<b>Toxics Detected</b>		
<b>Accutest Sample ID</b>	<b>JB33592-1</b>	<b>JB33592-2</b>
<b>Pollutant</b>	<b>ppm<sub>v</sub></b>	<b>ppm<sub>v</sub></b>
Benzene	0.0025	0.0036
Carbon Disulfide	0.0019	ND
Chloroform	0.00074	ND
Chloromethane	ND	0.00058
Cyclohexane	0.0066	0.0024
Dichlorodifluoromethane	ND	0.00052
p-Dichlorobenzene	0.0021	ND
Ethylbenzene	0.0015	0.0065
(n) Hexane	0.0101	0.0043
Methylene Chloride	0.0012	0.00085
Methyl Ethyl Ketone	0.0175	0.0049
Methyl Isobutyl Ketone	0.0013	0.0012
Styrene	ND	ND
1,2,4 Trimethylbenzene	0.0019	0.0368
1,3,5 Trimethylbenzene	0.00082	0.0065
2,2,4-Trimethylpentane	ND	0.0059
Tetrachloroethylene	ND	ND
Toluene	0.004	0.0118
Trichloroethylene	0.00016	ND
Xylenes (total) m,p plus o	0.0069	0.019
<b>TOTAL</b>	<b>0.059</b>	<b>0.105</b>
<b>Non-Toxics Detected</b>		
<b>Accutest Sample ID</b>	<b>JB33592-1</b>	<b>JB33592-2</b>
<b>Pollutant</b>	<b>ppm<sub>v</sub></b>	<b>ppm<sub>v</sub></b>
Acetone	0.172	0.0496
m-Dichlorobenzene	0.0024	0.0018
Ethyl Acetate	0.003	ND
Ethanol	0.0285	0.781
4-Ethyltoluene	0.00061	0.0032
Freon 113	ND	ND
Heptane	0.0029	0.003
Isopropyl Alcohol	1.44	0.0116
Tertiary Butyl Alcohol	0.0015	0.0021
Tetrahydrofuran	0.00054	ND
Trichlorofluoromethane	ND	ND

**Texas Brine - Belle Rose, Louisiana**  
**Well Gas Sampling Results**

	Sample Date: 4/5/2013 ORW 23
<b>LHG Constituents</b>	
<b>SPL Sample ID</b>	<b>TB ORW 23</b>
<b>Pollutant</b>	<b>Mole %</b>
Nitrogen	2.737
CO <sub>2</sub>	1.061
Methane	92.822
Ethane	2.406
Propane	0.650
Iso-butane	0.171
n-Butane	0.114
Iso-pentane	0.030
n-Pentane	0.008
Hexanes+	0.001
Heptanes+	ND
<b>Sulfides</b>	
<b>SPL Sample ID</b>	<b>TB ORW 23</b>
<b>Pollutant</b>	<b>ppm<sub>w</sub></b>
Hydrogen Sulfide	ND
Carbonyl Sulfide	ND
Dimethyl Sulfide	ND
Unkown Sulfides	ND
Methyl Mercaptans	ND
Ethyl Mercaptans	ND
Isopropyl Mercaptans	ND
n-Propyl Mercaptans	ND
sec-Butyl Mercaptans	ND
tert-Butyl Mercaptans	ND
n-Butyl Mercaptans	ND
pri-Amyl Mercaptans	ND
Carbon Disulfide	ND
Unkown Disulfides	ND
Thiophene	ND
<b>Toxics Detected</b>	
<b>Accutest Sample ID</b>	<b>JB33593-1</b>
<b>Pollutant</b>	<b>ppm<sub>v</sub></b>
Benzene	8.21
Carbon Disulfide	ND
Chloroform	0.27
Chloromethane	ND
Cyclohexane	ND
Dichlorodifluoromethane	ND
Ethylbenzene	0.0632
(n) Hexane	0.478
Methylene Chloride	ND
Methyl Ethyl Ketone	ND
Methyl Isobutyl Ketone	ND
Styrene	0.112
1,2,4 Trimethylbenzene	ND
1,3,5 Trimethylbenzene	ND
2,2,4-Trimethylpentane	ND
Tetrachloroethylene	ND
Toluene	0.782
Trichloroethylene	ND
Xylenes (total) m,p plus o	0.0399
<b>TOTAL</b>	<b>9.96</b>
<b>Non-Toxics Detected</b>	
<b>Accutest Sample ID</b>	<b>JB33593-1</b>
<b>Pollutant</b>	<b>ppm<sub>v</sub></b>
Acetone	ND
Ethanol	74.9
4-Ethyltoluene	ND
Freon 113	ND
Heptane	ND
Isopropyl Alcohol	3.04
Tertiary Butyl Alcohol	ND
Trichlorofluoromethane	ND



**Well Gas Sampling Location**

**April 5, 2013**

Texas Brine - Belle Rose, Louisiana  
Hourly Air Monitoring Data

\*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

Date-Time *	South-most Pipeline Site					Middle-most Pipeline Site					North-most Pipeline Site					On Drill Rig Boom					Relief Well				
	ST-3					ST-2					ST-1					OG 3A-1					RW-1				
	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	SO2 (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)
04/09/2013 05:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9
04/09/2013 06:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9
04/09/2013 07:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9
04/09/2013 08:00:00 AM	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 09:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 10:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 11:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 12:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 01:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 02:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 03:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.1	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 04:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	21.1
04/09/2013 05:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	21.1
04/09/2013 06:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	21.2
04/09/2013 07:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	21.1
04/09/2013 08:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 09:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 10:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/09/2013 11:00:00 PM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	21.0	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/10/2013 12:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/10/2013 01:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/10/2013 02:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/10/2013 03:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/10/2013 04:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9
04/10/2013 05:00:00 AM	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9

Notes:

# RESPEC Consulting & Services

Texas Brine, L.L.C.

Assumption Parish, Louisiana

## Daily Field Report

Report By: David Gnage

Date: 4-9-13

Company: RESPEC

Work Order #:           ()

Personnel	Company	Job Title

**Time Onsite:**      Start Time: NA      End Time: NA

**Equipment Onsite:**

**Daily Activity:**      No Field Work Conducted. RESPEC not on-site.

**Proposed Schedule:** RESPEC will be onsite Thursday and Friday of this week (April 11<sup>th</sup> and 12<sup>th</sup>) to reconnoiter various gas bubble and proposed geoprobe well sites, as well as to determine which of the MRAA wells are ideally suited for gas sampling.

Initials: DJG

## **ME&A Daily Action Summary**

April 9, 2013

### **Subsidence Survey:**

- No Work Done

### **Sinkhole Perimeter/Hydrographic Survey:**

- No Work Done

### **Support Sinkhole Cleanup**

- No Work Done

### **Misc. Survey Work**

- No Work Done

**Michael Pisani & Associates**  
**Texas Brine, L.L.C.**  
**Assumption Parish, Louisiana**  
**Daily Field Report**

Report By: Patrick Ritchie

Company: MP&A

Date: 4/9/2013

Work Order # 80-05

Health and Safety Meeting ☒ YES

☐ NO

Weather: 80 F mostly cloudy

<u>Personnel</u>	<u>Company</u>	<u>Job Title</u>
<u>Patrick Ritchie</u>	<u>MP&amp;A</u>	<u>Environmental Scientist</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
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<u> </u>	<u> </u>	<u> </u>

Site Activities:      Start Time      9:15      End Time      14:00

**Equipment On-site:**      Airboat

**Daily Activity:**

Conduct in-situ monitoring surface water transect and industrial water well locations

Measure water level for the industrial water wells

Estimated time of completion:

On-going

**Proposed schedule:**

Conduct in-situ monitoring surface water transect and industrial water well locations

Measure water level for the industrial water wells

Measure pressure and water level at TBC Geoprobe locations

Collect laboratory samples from the MRAA wells

On-going

Initials:      PMR